CIPHERLAB
Smarter

UHF RFID READER

RK26 / RS35 / RS36 / RS36 Short-range

UHF RFID READER

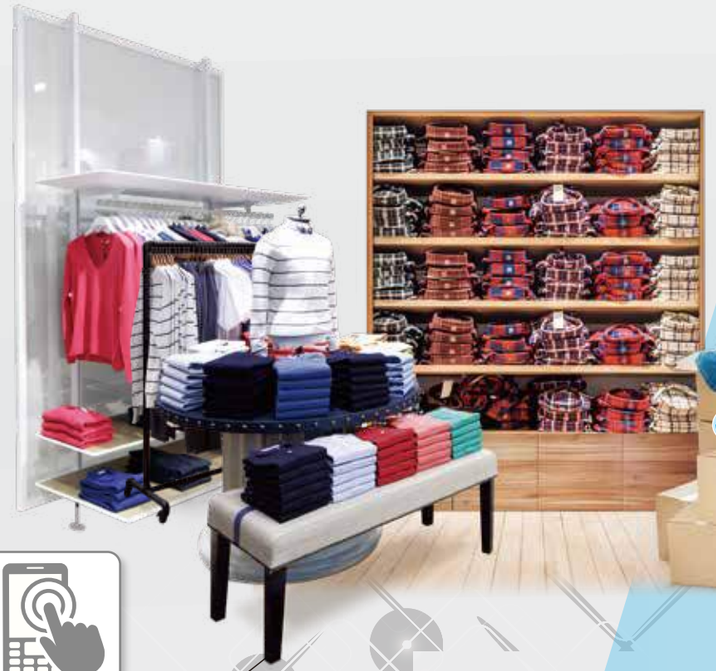
A Simple Snap Increases Efficiency and Productivity to the Max

Software utilities of EZConfig and EZEdit provide different settings to best fit user's individual needs.

Comprehensive Mode*
The ability to read multiple types of tags displayed in various direction with high accuracy and elimination of duplication, suitable for replenishment in a store.

Long battery life

The large touch screen applies to retail and T&L



RS35 / RS36 UHF RFID reader

Triggerless – the alternative software trigger option, in addition to the hardware trigger, enables continuous RFID scans.

IP54

1.2M

RS35 / RS36:
900⁺ tags/sec, up to 8⁺ meters

RS36 NUHF RFID Reader:
100⁺ tags/sec, up to 3 meters

*Not supported by the RS36 NUHF RFID reader.

Modular design. Simply attach the handheld computer onto the dedicated UHF RFID reader

Tag Locating*
The ability to identify the location of a specific tag when encountering missing a specific item.

Multi-tag Mode*
Power save and the ability to read large amount of tags laid on the same plane at a high speed, suitable for warehouse inventory management.

The keypad-equipped applies to warehousing and where the large input data is required

Lock/Unlock
Data on tag is encrypted and locked for security to prevent threats such as information leakage.

IP54

1.2M

RK26 UHF RFID reader

High-performance RFID technology for both long-range and short-range reading.

RK26 UHF RFID Reader:
700⁺ tags/sec, up to 8⁺ meters

Maximize Efficiency and Productivity for Inventory Management

The CipherLab RK26, RS35 and RS36 mobile computers can be equipped with UHF RFID capability. By attaching the UHF RFID reader to these devices, you can easily read and write RFID tags.This is a cost-effective solution that enhances productivity and efficiency in managing inventory tasks.

Upgradeable UHF RFID Functions

Enhance your RK26, RS35 and RS36 devices with CipherLab's UHF RFID readers. Switch between RFID and barcode data collection for efficient inventory management. Ideal for retail and warehouse use, the UHF RFID readers quickly read large quantities of tags and offer long-lasting power for a full workday. With excellent software support, the readers ensure quick and simple productivity.

Flexible RFID Functionality

The RK26, RS35, and RS36 mobile computers can quickly gain RFID capabilities by adding them to their UHF RFID reader. Data collection is more stable and secure with a direct electrical 8-pin connection to the host device. The RFID reader software can also be upgraded. Users can easily switch between RFID reading and barcode scanning using hot keys assigned with the Button Assignment* utility. Moreover, the Triggerless function in EZEdit enables software-triggered reading on the screen, allowing continuous RFID reading with a single click, reducing user fatigue.

Long-Lasting Battery with Flexible Charging

Combining the mobile computer and UHF RFID reader batteries provides users with sufficient power for an entire work shift, eliminating interruptions and replacements. Battery levels for both devices are displayed on the mobile computer screen. The RFID reader can be charged via the cradle, snap-on cable while connected to the mobile computer, or by swapping the battery as needed.

High-Security Solutions for Diverse Applications

CipherLab UHF RFID readers comply with the EPC Global Gen 2v2 standard for high data security. The RK26 reader reads over 700 tags per second at up to 8 meters, ideal for warehouses. The RS35/RS36 readers read over 900 tags per second at up to 8 meters, perfect for retail and logistics. Additionally, the RS36 NUHF reader reads over 100 tags per second at up to 3 meters, suited for short-range applications.

Ruggedness and Ergonomic Design

CipherLab's UHF RFID readers feature an IP54 rugged design, ensuring resistance to dust and water, and pass a rigorous 1.2-meter drop test for durability in various environments. Their ergonomic design, rigorously tested with 2.5 million presses* for reliability, includes a slim and comfortable trigger handle*, perfect for efficiently managing intensive RFID and barcode data collection tasks.

Not supported by the RS36 NUHF RFID reader.

Easy Deployment with CipherLab Software Support

Extensive software support is available, including the RFID Android Software Development Kit and apps of EZConfig and EZEdit. These utilities save users' valuable development and configuration time on their business rather than programming.

EZConfig provides a convenient console for quickly configuring all settings in the RK26, RS35 and RS36 UHF RFID readers, allowing users to customize parameters to suit their needs. It includes Scan Settings for adjusting UHF RFID parameters and Filter options to include or exclude specific tag data. The Multi-tag Mode* optimizes power savings and high-speed tag reading, which is ideal for warehouse inventories. It also supports reading multiple tag types in stores while filtering repeated tags for accurate replenishments. Users can define settings in five profiles for seamless switching between applications.

Users can effortlessly access the Read, Write, and Lock functions of the RK26, RS35 and RS36 UHF RFID readers via EZEdit. The Lock function enhances security by restricting tag information reading and writing. The Inventory function allows the scanning of multiple RFID tags, providing total reads and unique tag results. Tag Locating* enables pinpointing tag locations with audible beeps, with volume indicating proximity.

RK26 / RS35 / RS36 / RS36 Short-range UHF RFID READERS

UHF RFID | Pin connector | IP54 | 1.2M MUTIPLE DROPS

		RK26 UHF RFID Reader	RS35 / RS36 UHF RFID Reader	RS36 NUHF RFID Reader
Physical characteristics	Communication	Electrical 8-pin connection		
	Dimension	Without RK26: 152.4 mm x 85.3 mm x 158.8 mm With RK26: 181.4 mm x 85.3 mm x 162.9 mm	Without RS35: 156.2 mm x 92.8 mm x 186.3 mm With RS35: 199.4 mm x 92.8 mm x 186.3 mm	With RS36: 165.1 mm x 78.5 mm x 36.05 mm
	Weight	Without RK26: 353.4 g With RK26: 632.7 g	Without RS35: 366 g With RS35: 655 g	With RS36: 338 g
	Power	Li-ion battery pack Typical voltage: 3.6V Typical capacity: 3000mAh		Li-ion battery pack Typical voltage: 3.85V Typical capacity: 4000mAh
	Notification	R/G/B LED		–
	Input	Trigger key		
RFID performance	Standard	EPC Class1 Gen2 V2		EPC C1 GEN2 / ISO18000-6C
	RF module	Impinj R2000 high performance UHF RFID chipset solution		Impinj E310 entry level UHF RFID chipset solution
	Antenna	Circularly polarized		
	Fastest read data rate *1	700+ tags/sec	900+ tags/sec	100+ tags/sec
	Multi tags read data rate*2	500+ tags/sec	600+ tags/sec	–
	RF power level	5-30, 26 steps		0-26,26steps
	Nominal read range*1	8+ m (+26 ft)		–
	Max Read Range	–		3 m (9.8 ft)
	Frequency range	US: 902~928 MHz (RK25/RK26/RS35/RS36)		US:902~928MHz
		EU: 865~868 MHz(RK25/RK26/RS35/RS36)		EU: 865~868MHz
		TW: 922~928MHz(RK25/RK26/RS35/RS36)		JP: 916~920MHz
		JP: 916~920MHz(RK25/RK26/RS35/RS36)		AU: 920-924MHz
		AU: 920-924MHz(RK25/RK26/RS35/RS36)		–
		NZ: 920-924MHz(RK25/RK26/RS35/RS36)		–
		IN : 865.7~866.9 MHz(RK25/RK26/RS35/RS36)		–
		Morocco: 867.7-867.9 MHz (RK25/RK26/RS35/RS36)		–
		TH (Thailand): 920-924 MHz(RK25/RK26/RS35/RS36)		–
User environment	Drop	1.2m (With RK26)	1.2m (With RS35 / RS36)	1.2m (With RS36)
	Operating temperature	-20°C to 50°C / -4°F to 122°F		
	Storage temperature	-30°C to 70°C / -22°F to 158°F		
	Sealing	IP54		
	Charging time	Full charged time approximate 6 hrs (charge with RK26 data terminal)	Full charged time approximate 6 hrs (charge with RS35 / RS36 data terminal)	Full charged time approximate 6 hrs (charge with RS36 data terminal)
	ESD	± 15kV air discharge / ± 8kV contact discharge		
	EMC	CE, FCC, NCC, IC, JRL, EAC, NBTC, RCM, WPC	CE, RCM, FCC, NCC, IC, JRL, EAC, NBTC, WPC	CE, FCC, NC, JRL, NBTC, WPC
Software	RFID Android Software Development Kit			
	EZConfig with filter repeated tags			
	EZEdit			
Accessories	Battery, Battery charger			Charging and communication cradle, Snap-on cable, Hand strap, 4-slot battery charger, 5-slot Terminal charging cradle, Battery charger with terminal charging cradle, Shoulder strap, Screen protector
Warranty	1 year			

1. Maximum read rate and read range are subject to the function setting, tag performance, test environment and conditions. The test result is based on Smartrac DogBone RFID tag Impinj Monza R6-P(97 x 27 mm / 3.82 x 1.06 in).
2. The Scanning speeds are reference values. Actual multiple scanning speeds will depend on the environment. The result tested by Cipherlab Fastest mode setting with FM0 400KHz/640KHz, Section0, Dynamic Q in ALN9740 700 tags space.
3. Fastest read rate setting is selected mode 223 ,Miller2 320KHz; Maximum reading range setting is slelected mode 285, Miller8 160KHz.

ACCESSORIES

Battery charger*

Battery*

Headquarters
CipherLab Co., Ltd.
12F, No. 333, Sec. 2, Dunhua S. Rd., Da'an Dist., Taipei City 106033, Taiwan
Tel: +886 2 8647 1166 Fax: +886 2 8732 3300

CipherLab China
3115 Room, No.317 Xianxia Road, Changning District, Shanghai, China 200050
Tel: +86 21 3368 0288 Toll Free: +86 400 920 0285 Fax: +86 21 3368 0286

CipherLab USA
2552 Summit Ave. STE 400 Plano, Texas 75074, USA
Tel: +1 469 241 9779 Toll Free: +1 888 300 9779 Fax: +1 469 241 0697

CipherLab Europe
Cahorslaan 24, 5627 BX Eindhoven, The Netherlands
Tel: +31 (0) 40 2990202

©2024 CipherLab Co., Ltd. All specifications are subject to change without notice. All rights reserved. All brand, product and service, and trademark names are the property of their registered owners.
TRUHFX0101501 – 08/2024